

WHAT IS CLAIMED IS:

- 1     1.     A surge protector device comprising:  
2             an input for combined AC power and powerline signals;  
3             a surge protection circuit connected to the input;  
4             at least one output connected to the surge protection circuit; and  
5             a high-pass filter connected between the input and the at least one output  
6     configured and arranged such that powerline networking signals can pass through the  
7     surge protection device without being attenuated by the surge protection circuit.
- 1     2.     A surge protector device in accordance with Claim 1, wherein the input has at  
2     least two rails, the at least one output has at least two rails, and wherein the high-pass  
3     filter is connected between one rail of the input and one rail of the at least one output.
- 1     3.     A surge protector device in accordance with Claim 2, wherein the input includes  
2     two rails, each of the at least one output has two rails, and the high-pass filter is  
3     connected between both rails of the input and both rails of each of the at least one output.
- 1     4.     A surge protector device in accordance with Claim 1, wherein the high-pass filter  
2     comprises two capacitors in parallel.
- 1     5.     A surge protector device in accordance with Claim 4, wherein the capacitance of  
2     each of said capacitors is between about 0.001uf and about 0.1uf.
- 1     6.     A surge protector device in accordance with Claim 5, wherein the capacitance of  
2     each of said capacitors is between about 0.1uf and about 0.01uf.
- 1     7.     A surge protector device in accordance with Claim 6, wherein the capacitance of  
2     each of said capacitors is about 0.01uf.

- 1 8. A surge protector device in accordance with Claim 1, further comprising:  
2 a housing, the high-pass filter and the surge protection circuit being in the housing.
- 1 9. A surge protector device in accordance with Claim 1, further comprising:  
2 a powerline network adapter electrically downstream of the at least one output.
- 1 10. A surge protector device in accordance with Claim 1, further comprising:  
2 at least one inductor connected between the input and the surge protection circuit to  
3 increase impedance at a powerline networking operating frequency.
- 1 11. A surge protector device comprising:  
2 power and powerline signal input means;  
3 surge protection means connected to the input means;  
4 output means connected to said surge protection means; and  
5 high-pass means connected between the input and the output for passing  
6 powerline networking signals through the surge protection means without being  
7 substantially attenuated by the surge protection means.
- 1 12. A surge protector device in accordance with Claim 11, wherein the high-pass  
2 means comprises two similar capacitors in parallel.
- 1 13. A surge protector device in accordance with Claim 12, wherein the capacitance of  
2 each of said capacitors is between about 0.001uf and about 0.1uf.
- 1 14. A surge protector device in accordance with Claim 13, wherein the capacitance of  
2 each of said capacitors is between about 0.001uf and about 0.01uf.

- 1 15. A surge protector device in accordance with Claim 14, wherein the capacitance of  
2 each of said capacitors is about 0.01uf.
- 1 16. A surge protector device in accordance with Claim 11, wherein the input means  
2 comprises at least two rails, the output means comprises at least two rails, and wherein  
3 the high-pass means is connected between one rail of the input means and one rail of the  
4 output means.
- 1 17. A surge protector device in accordance with Claim 16, wherein the input means  
2 includes two rails, the output means has two rails, and the high-pass means is connected  
3 between at least one rail of the input means and at least one rail of the output means.
- 1 18. A surge protector device in accordance with Claim 11, further comprising:  
2 an enclosure means, the high-pass means and surge protection means being in the  
3 enclosure means.
- 1 19. A surge protector device in accordance with Claim 11, further comprising:  
2 a powerline network adapter means electrically downstream of the output means.
- 1 20. A surge protector device in accordance with Claim 11, further comprising:  
2 an inductor means on the input means to increase impedance at a powerline networking  
3 operating frequency.